AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A functional test and demonstration apparatus for a fuel cell power system comprising:

a control device, for controlling the fuel cell power system and <u>further</u> receiving at least one signal from the fuel cell power system;

a fuel cell stack having a hydrogen gas inlet, a hydrogen gas outlet, an air inlet, an air outlet, and a pair of output terminals for supplying a DC output voltage;

a load system, which comprises at least one electronic load connected to the output terminals of the fuel cell stack;

a hydrogen gas supply pipeline for conduction of a hydrogen gas from hydrogen gas storage to the hydrogen gas inlet of the fuel cell stack; an air supply pipeline for conduction of an air source from a blowing device to the air inlet of the fuel cell stack; and

a connection and display panel combined with, which comprises

having a plurality of joints to provide physical connection for connecting to at
least one of the control device, the fuel cell stack, the load system, the
hydrogen gas supply pipeline and the air supply pipeline, and a plurality of
indicating units, the connection and display panel further having a plurality of
display regions for generating graphic representations of at least a portion of
the fuel cell power system, the joints and display regions being arranged in
coordinated manner on the connection and display panel, whereby the joints
and display regions collectively define a visual representation of the for
indicating an operation of the fuel cell stack in operation.

2. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the load system comprises at least one electronic load with an adjustable power consumption.

- 3. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 2, wherein the electronic load is connected to the control device through a signal communication interface, so that the electronic load being[[is]] controllable by the control device through the signal communication interface.
- 4. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 1, wherein the load system comprises at least one fixed load having with a fixed constant power values consumption.
- 5. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 4, wherein the load system is an AC electric load, and the functional test and demonstration apparatus further <u>include comprising</u> a DC-to-AC converter for converting the DC output voltage supplied by the fuel cell stack into an AC output voltage for supplying to the AC electric load.
- 6. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the fuel cell stack comprises a temperature sensor for detecting a temperature of the fuel cell stack and thereby transmitting a temperature signal to the control device via an analog to digital converting interface.

- 7. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the hydrogen gas supply pipeline comprises a pressure regulating device for regulating a pressure of the hydrogen gas.
- 8. (Original) The functional test and demonstration apparatus as claimed in Claim 7, wherein the hydrogen gas supply pipeline further comprises a flow regulating valve for regulating a flow rate of hydrogen gas.
- (Original) The functional test and demonstration apparatus as claimed in Claim 8, wherein the flow regulating valve further comprises a flow meter for measuring the flow rate of hydrogen gas.
- 10. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the hydrogen gas supply pipeline further comprises a pressure gauge for measuring a pressure of hydrogen gas.
- 11. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the hydrogen gas supply pipeline further comprises a thermometer for measuring a temperature of hydrogen gas.
- 12. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the air supply pipeline comprises a flow regulating valve for regulating a flow rate of air supplied to the fuel cell stack.
- 13. (Original) The functional test and demonstration apparatus as claimed in Claim 12, wherein the air supply pipeline further comprises a flow meter for measuring the flow rate of air.
- 14. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 13, further comprising:

a cooling air supply pipeline which is branching off from connected to the air supply pipeline for conducting directs a part portion of the air drawn in by the blowing device to a cooling air inlet of the fuel cell stack, the flow regulating valve of the air supply system_regulates[[ing]] the flow rate of air to the air supply pipeline and flow rate of air to the cooling air supply pipeline simultaneously such that[[,]] so that the amount of cooling air increases as amount of the reaction air to the fuel cell stack increases and thereby the fuel cell stack is appropriately cooled.

- 15.(Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the air supply pipeline further comprises a pressure gauge for measuring a pressure of the air.
- 16. (Original) The functional test and demonstration apparatus as claimed in Claim 1, wherein the air supply pipeline further comprises a thermometer for measuring a temperature of the air.
- 17. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 1, wherein the air supply pipeline further comprises a humidifier for humidifying the air in the air supply pipeline.
- 18. (Currently Amended) The functional test and demonstration apparatus as claimed in Claim 1, wherein the connection and display panel comprise:[[s]] a fuel cell stack and gas supply connection region;[[,]] an anode gas supply region;[[,]] a cathode gas supply region;[[,]] a load display region; and an auxiliary display region.